1. Name the two people that discovered/invented calc.
2. Give two interpretations of differential calculus and one of integral calculus.
3. For the long definition of a derivative, explain why we need lim

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1. Name the three derivative rules we know.

For 5-9, find the derivative.

1. y=x5+3x2-4x+1
2. f(x)= 2sinx -4cosx
3. y=(2x-3)(7x-1)
4. y=
5. y=3/x3
6. y=(3x-2)/x2

For 11-12, find the derivative using implicit differentiation.

1. (x-2)2+y2=25
2. X2+(y+4)2=36

For 13-15, find the slope of the tangent line.

1. Go back to number 5 and find the slope at x=3
2. Go back to number 6 and find the slope at x=π
3. Go back to number 7 and find the slope at x=-1
4. Why can’t we use m=rise/run to find the slope for questions 13-15.

For 17-19, find the equation of the tangent line.

1. Find the equation of the tangent line for y=x2-3x at x=1
2. Find the equation of the tangent line for y=6x3-2 at x=-1
3. Find the equation of the tangent line for x2+y2=16 at (1, 3.87)
4. Graph the original function in #19 along with the tangent line equation.